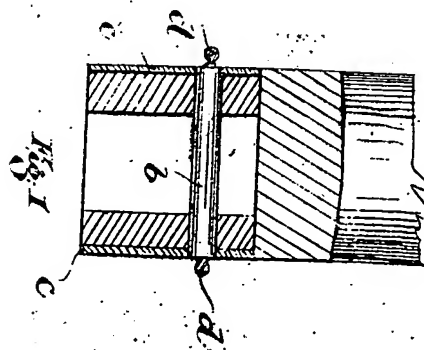
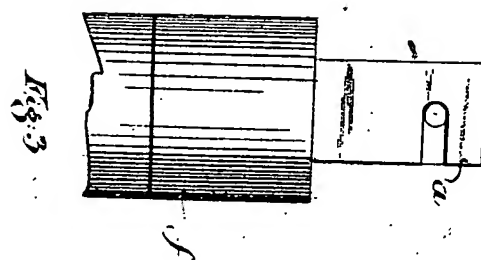
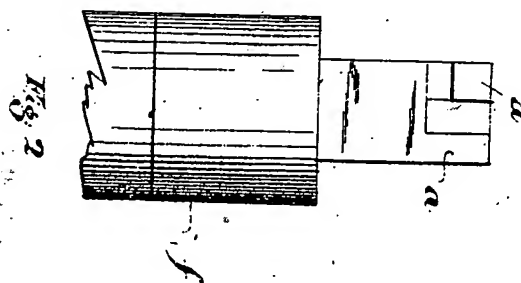
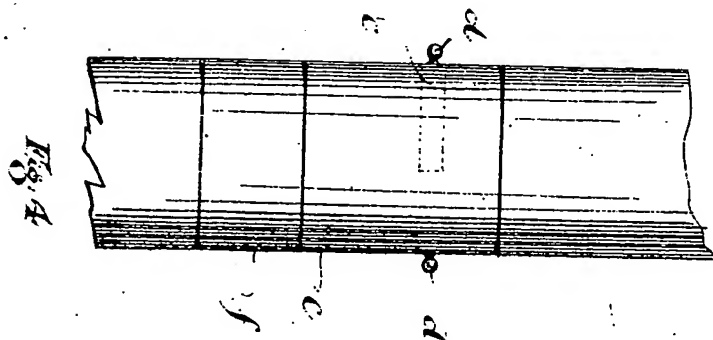


A.D. 1893. JUNE 22. N<sup>o</sup> 12,281.  
OLIVER'S COMPLETE SPECIFICATION.

(1 SHEET)



[This Drawing is a reproduction of the Original on a reduced scale.]

DIV. 35

43  
18.105

N° 12,281



A.D. 1893

Date of Application, 22nd June, 1893—Accepted, 22nd July, 1893

COMPLETE SPECIFICATION.

An Improved Joint for Fishing Rods, Chimney Cleaning Rods, and like purposes.

I, EMMANUEL OLIVER of 56 Gardener's Lane, Putney, in the County of Surrey, Chimney Sweep, do hereby declare the nature of this invention and in what manner the same is to be performed, to be particularly described and ascertained in and by the following statement:—

5 This invention relates to detachable joints for connecting the parts of an extensible rod, and for like purposes.

It consists of two parts (1) a square socket in which is a transverse bar or pin, the ends of which work in two slots cut in the wall of the socket to receive them, and which ends are connected to an external collar by which the said pin can be  
10 turned horizontally about one fourth of the diameter of the socket, and (2) the counter part or male end of the joint which is composed of a square plug fitting accurately in said socket and carrying at its extremity two hooks facing in opposite directions. These hooks are not close together but are separated by a space sufficient to receive the pin of the socket. The male end being inserted in  
15 the socket sufficiently far to enable the said pin to enter between the said hooks; the external collar, on which may be lugs to assist the operator, is turned round so that the pin lies nearly at a right angle to its first position, and in so doing locks the joint by passing beneath the projecting crook of the said hooks.

I will now describe the invention with reference to the accompanying drawings,  
20 in which

Fig. 1 shows a sectional elevation of the socket or female end of my improved joint with the locking bar *b* in position.

Fig. 2 shows a front elevation and Fig. 3 a side elevation of the male or projecting end of the joint.

25 Fig. 4 shows an external view of the joint when brought together and closed.

*a a* are the hooks which engage with the bar *b*. *c* is the collar through which the bar *b* works or to which it is attached. *d d* are lugs on collar or on end of bar *b*. *e* is one of the slots in which the bar *b* turns. *f, f* are ferrules.

30 Instead of two hooks to engage with the bar *b* one can be employed if preferred, but I consider two to be preferable.

Instead of the bar turning in slots as described the bar may be fixed, and the hook made to turn inside the socket. In this case the collar *c* may be dispensed with, and the socket would be made round not square as shewn, and an outside catch would be necessary.

35 Having now particularly described and ascertained the nature of my said invention and in what manner the same is to be performed, I declare that what I claim is:—

1. A locking joint for fishing rods and like purposes consisting of (1) a recess or socket and transverse pin, with or without an external collar and lugs and  
40 (2) a plug fitting into said socket and terminating in one or two strong hooks which engage with said transverse pin, as herein described and set forth.

Dated this 22nd day of June 1893.

S. S. BROMHEAD,  
97, Newgate Street, London, Agent for Applicant.

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